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-	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	09/671,817	09/27/2000	Aled Edwards	11670/2	5923	
	25181	7590 05/06/2002				
	•	AG & ELIOT, LLP		EXAMINER		
		FFICE SQUARE		SHEINBERG,	SHEINBERG, MONIKA B	
	BOSTON, MA	A 02109		ARTUNIT	PAPER NUMBER	
				1631		
				DATE MAILED: 05/06/2002	+	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)				
	Office Action Summan	09/671,817	EDWARDS ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Monika B Sheinberg	1631				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failuretoreply-withinthe-set-or-extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)	Responsive to communication(s) filed on						
2a) <u></u> □	This action is FINAL . 2b)⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
· · _							
7/63	 4) ☑ Claim(s) 1-66 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 						
5)□	Claim(s) is/are allowed.	m nom consideration.					
	Claim(s) is/are rejected.						
	Claim(s) is/are objected to.						
·	Claim(s) <u>1-66</u> are subject to restriction and/or e	election requirement					
	ion Papers	section requirement.					
9)	The specification is objected to by the Examiner	•					
10)⊠ The drawing(s) filed on <u>27 September 2000</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
	Applicant may not request that any objection to the	-					
11) 🔲	The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappro	ved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents	have been received.					
	2. Certified copies of the priority documents	have been received in Application	on No				
* 5	Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
а	a) The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)							
1) Notic 2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-50, drawn to a method of optimizing high-throughput-protein structure determination, classified in class 703, subclass 12. (If this group is elected, please see species election requirement further below).
- II. Claims 1-43 and 51-57, drawn to a method of optimizing high-throughput protein purification, classified in class 530, subclasses 344 and 412. (If this group is elected, please see species election requirement further below).
- III. Claims 1-43 and 58-64, drawn to a method of optimizing high-throughput protein expression, classified in class 435, subclass 69.1. (If this group is elected, please see species election requirement further below).
- IV. Claims 1-43 and 65-66, drawn to a method of optimizing high-throughput drugtarget discovery, classified in class 702, subclass 19. (If this group is elected, please see species election requirement further below).

The inventions are distinct, each from the other because of the following reasons:

Groups I-IV are generic inventions that are patentably distinct due to different steps and goals. The modification steps for each of these require different methods of science and technology in order for optimization. For example, the methodologies modifying protein structure concerns technologies of 3D representations, while methodologies of purifying an isolated protein concern for example, the altering the number of PCR cycles. Thus Groups I-IV are patentably distinct inventions.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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Species Election

Claims 1, 44, 51, 58, 65 and 66 are generic to a plurality of disclosed patentably distinct species of specifically disclosed biophysical and biochemical properties (see for example claims 4-28 and 31-37). As the method of claim 1 is contained in each of claims 41, 51, 54, 65 and 66, these claims have been grouped with a broadened method. The particular information, datamining techniques, and analysis for each search would differ depending upon the biophysical or biochemical property under examination.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Inquiries

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The CM1 Fax Center number is (703) 308-4242.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monika B. Sheinberg, whose telephone number is (703) 306-0511. The examiner can normally be reached on Monday-Friday from 9 A.M. to 5 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Woodward, can be reached on (703) 308-4028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Patent Analyst, Tima Plunkett, whose telephone number is (703) 305-3524, or to the Technical Center receptionist whose telephone number is (703) 308-0196.

April 30, 2002

Monika B. Sheinberg Art Unit 1631

MBG

MARIANNE P. ALLEN
PRIMARY EXAMINER

GROUP 1800 -941631